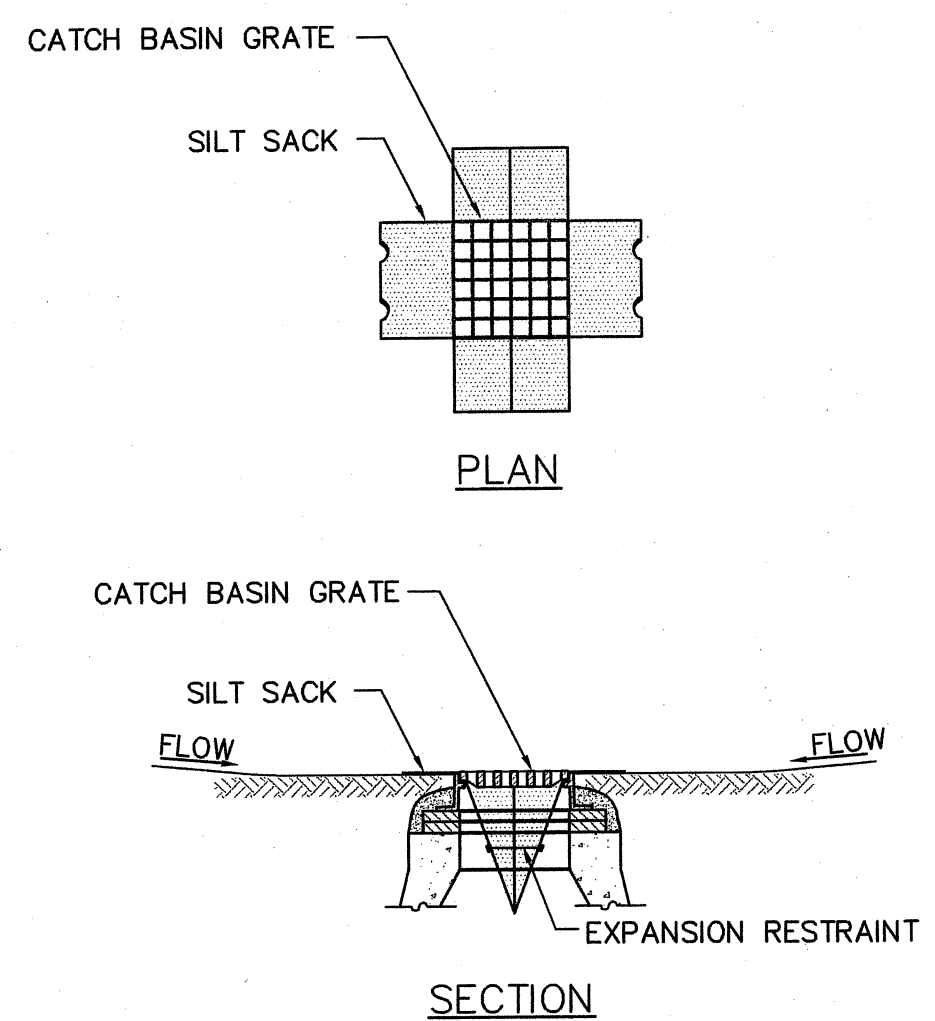


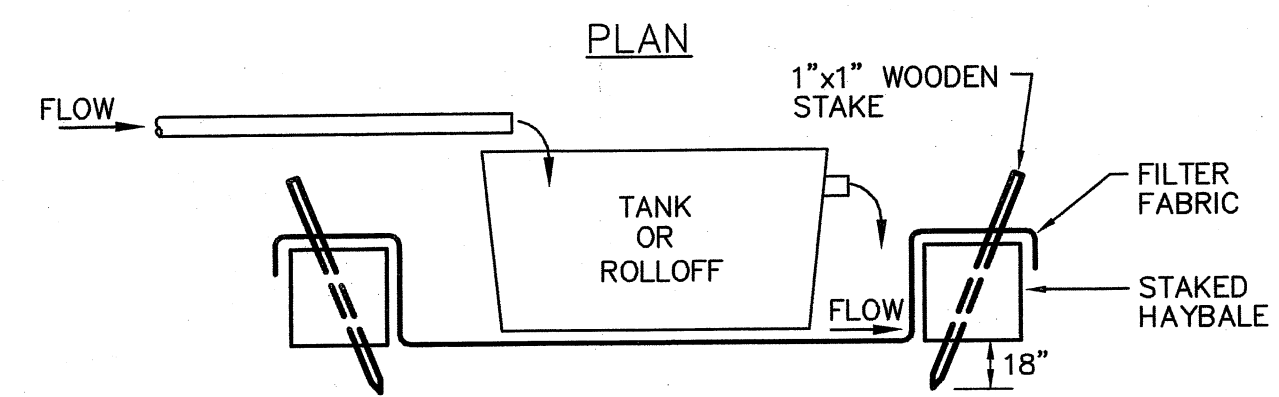
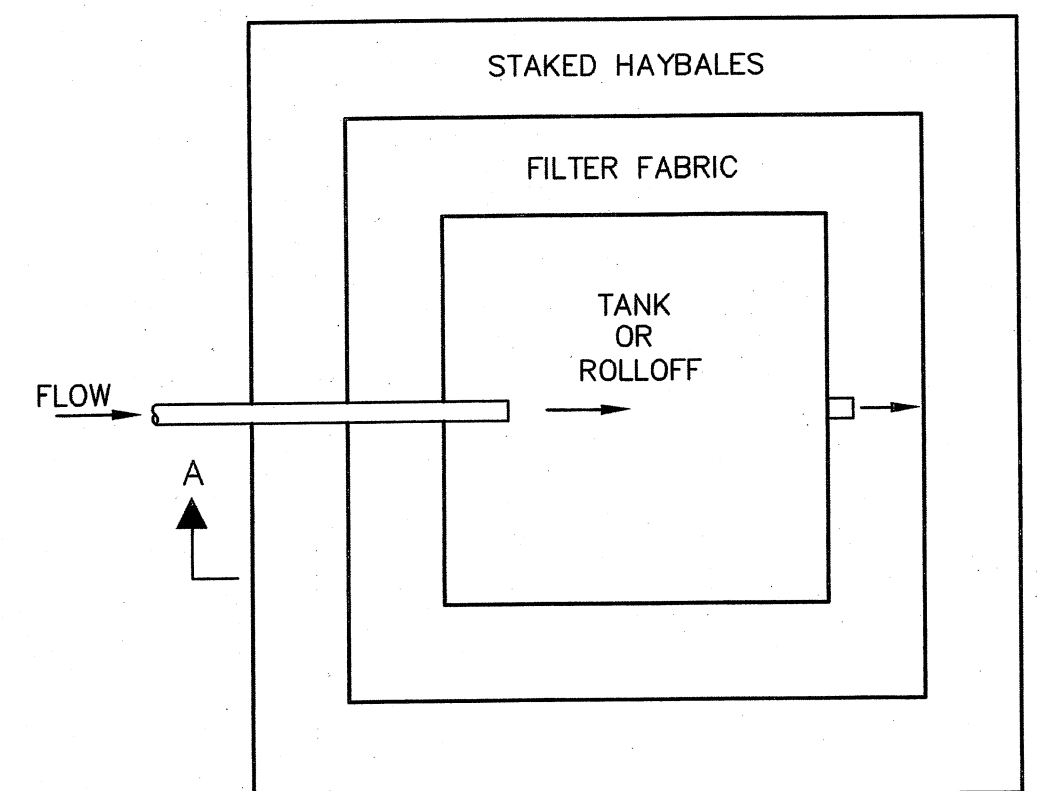
NOTE:
DIMENSIONS OF STOCKPILE AREA MAY VARY DEPENDING ON
QUANTITY OF EXCAVATION. AVOID OVERTOPPING
OR SLOPES IN EXCESS OF 1:1

PLAN OF TEMPORARY STOCKPILE AREA
NOT TO SCALE



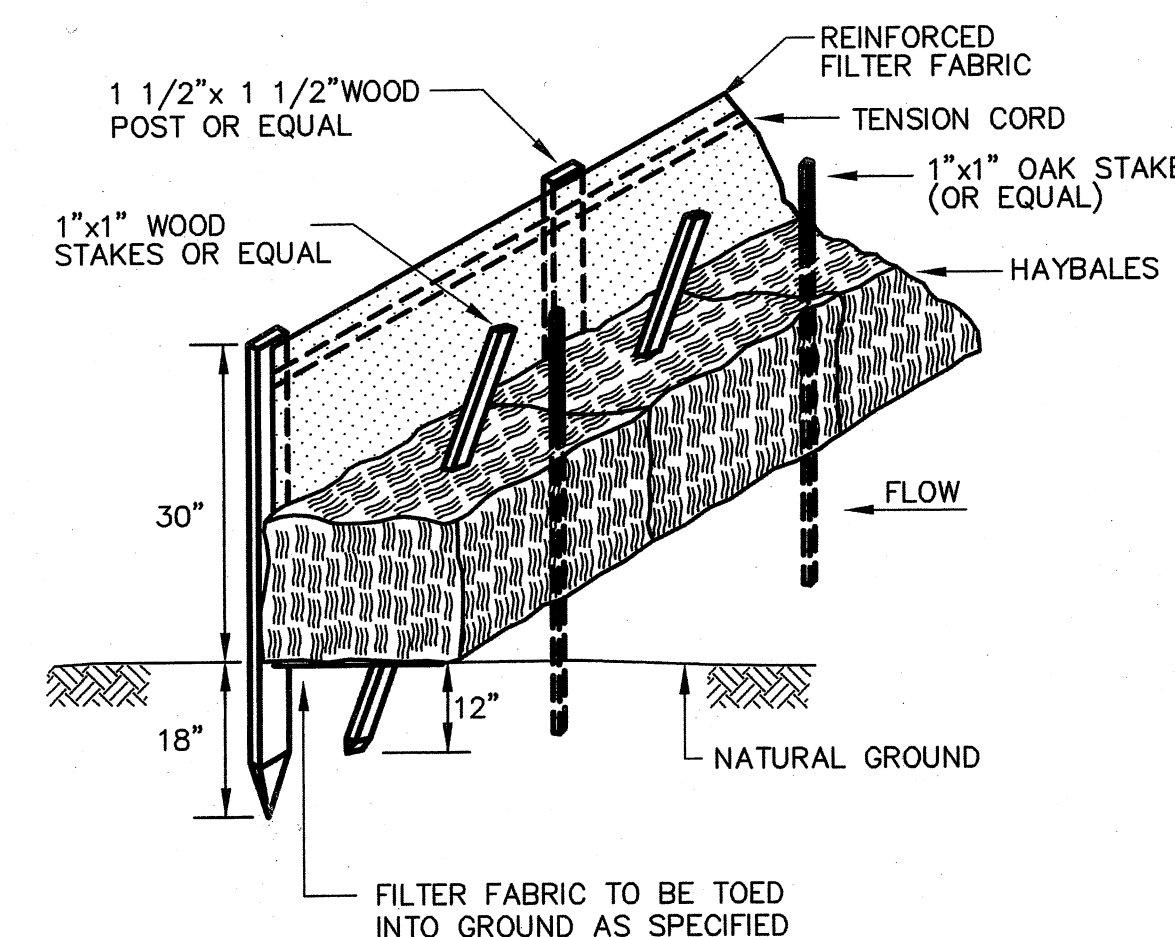
- NOTES:
1. INSTALL SILT SACK IN ALL CATCH BASINS BEFORE COMMENCING WORK
 2. GRATE TO BE PLACED OVER SILT SACK.
 3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.

SILT SACK SEDIMENT TRAP
NOT TO SCALE

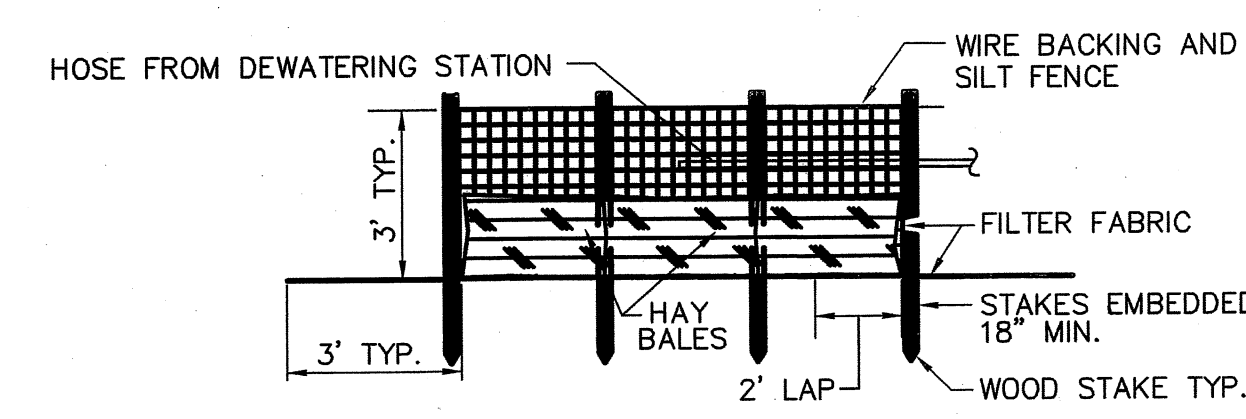
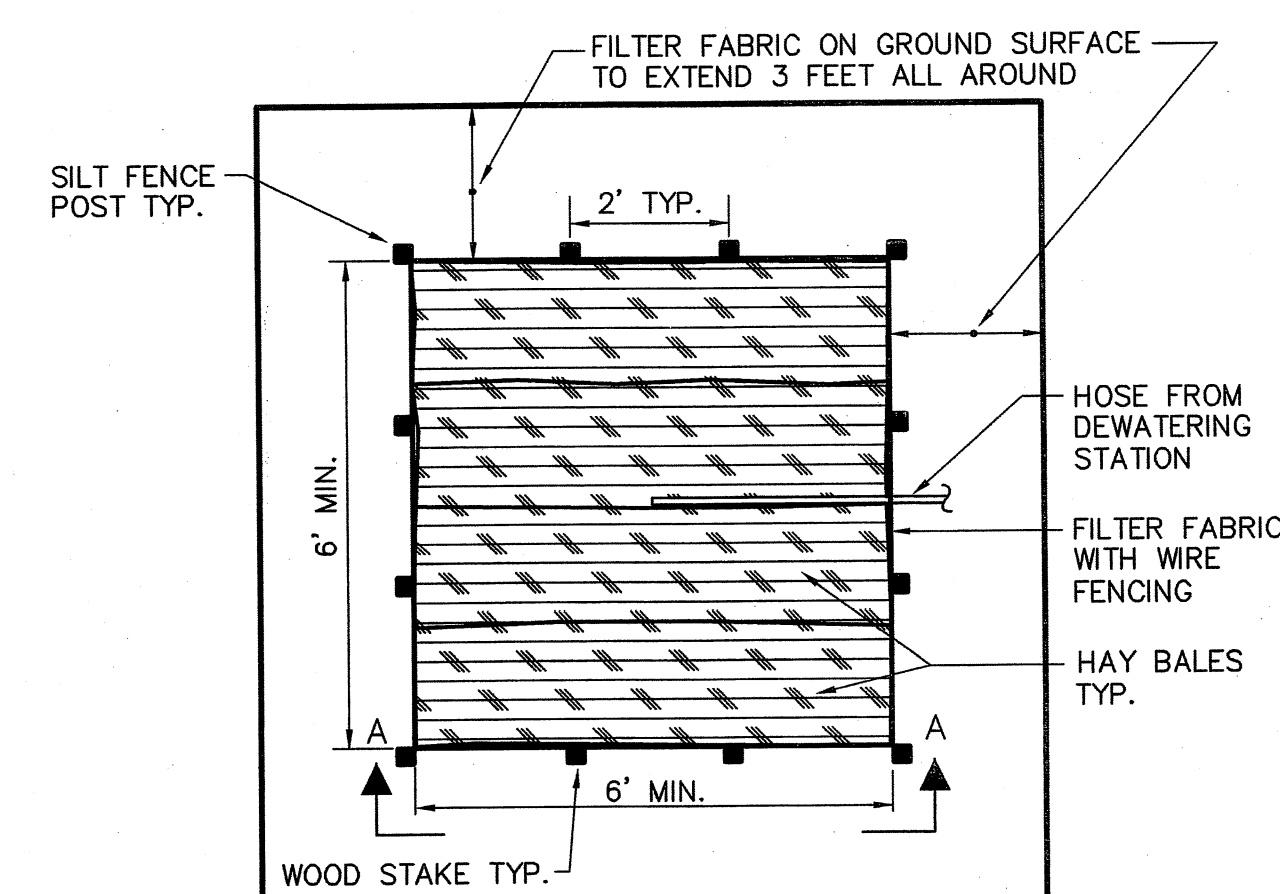


NOTE:
DIMENSIONS OF SEDIMENTATION BASINS MAY VARY DEPENDING ON
QUANTITY OF WATER TO BE PUMPED IN EACH AREA.
AVOID OVERTOPPING.

SEDIMENTATION BASIN FOR DEWATERING OPERATIONS

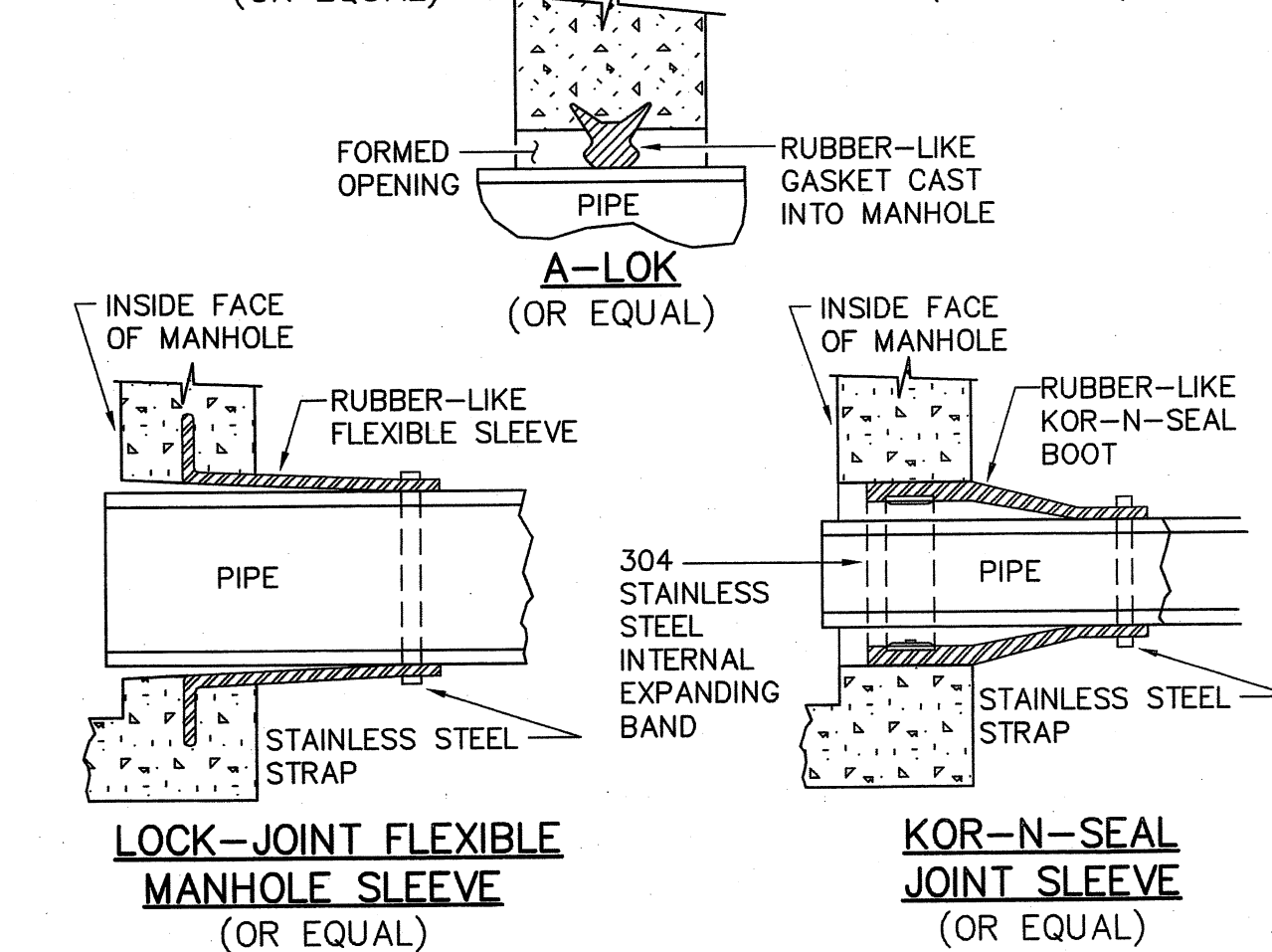
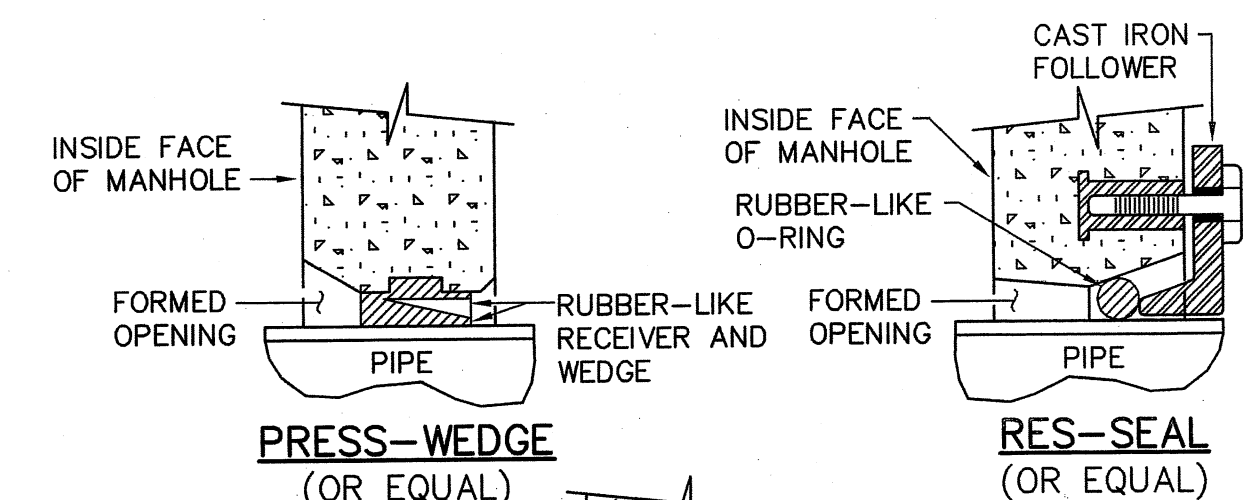


SILTATION / EROSION CONTROL BARRIER
NOT TO SCALE



NOTE:
DIMENSIONS OF SEDIMENTATION BASINS MAY VARY DEPENDING ON
QUANTITY OF WATER TO BE PUMPED IN EACH AREA.

SEDIMENTATION BASIN
NOT TO SCALE



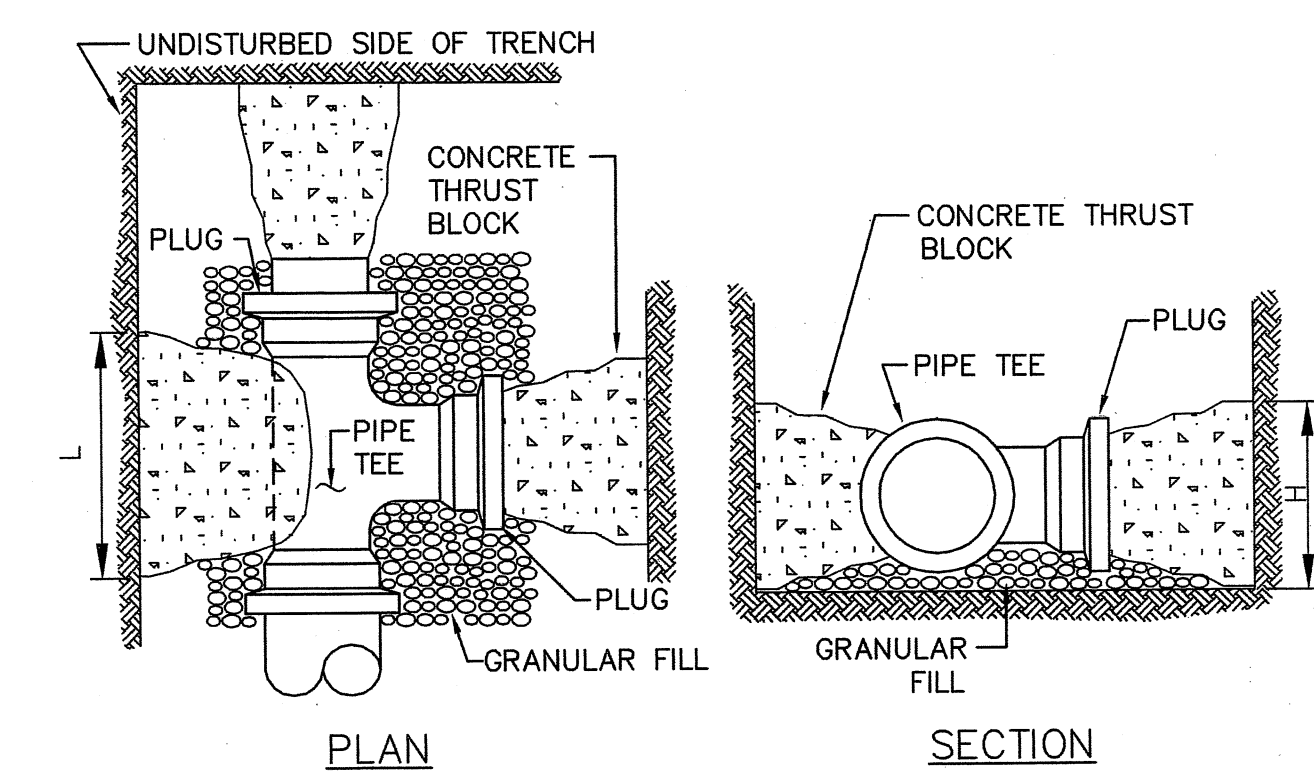
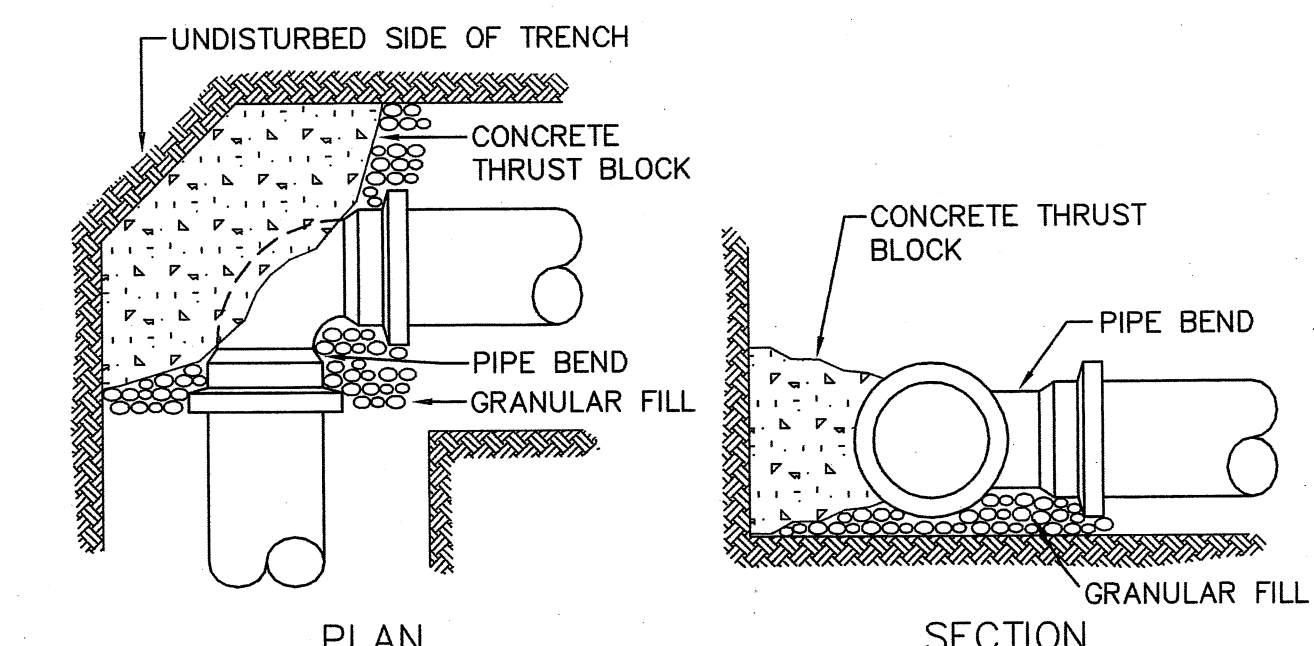
NOTE:
ALL GASKETS, SEALANTS, MORTAR ETC.
SHALL BE INSTALLED IN ACCORDANCE WITH
MANUFACTURERS WRITTEN INSTRUCTIONS.

MANUFACTURERS WRITTEN INSTRUCTIONS.
TYPICAL SLEEVE DETAILS
NOT TO SCALE

MINIMUM					
BEARING AREA — FT. ²					
PIPE DIAMETER (INCHES)	TEES, DEAD ENDS VALVES	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4	2.0	2.0	2.0	2.0	2.0
6	2.5	3.6	2.0	2.0	2.0
8	4.4	6.2	3.3	2.0	2.0
10	6.5	9.2	5.0	2.6	2.0
12	8.9	12.6	6.8	3.4	2.0

1. BEARING AREAS, BASED ON SOIL BEARING CAPACITY OF 4,000 PSF. MINIMUM BEARING AREA IS 2.0 SQUARE FEET.
2. IF SOIL HAS DIFFERENT BEARING CAPACITY THAN NOTED, NEW BEARING CAN BE CALCULATED BY RATIO I.E., IF SOIL HAS BEARING OF 2,000 PSF, MULTIPLY TABULATED VALUE BY 4/2.
3. TABLE IS FOR HORIZONTAL RESTRAINT ONLY.
4. VALUES SHOWN ARE FOR TEST PRESSURE OF 150 PSI WITH A 100 PSI SURGE ALLOWANCE.
5. THRUST BLOCKS SHALL NOT BE PLACED AGAINST THE FOLLOWING SOILS: A) PEAT, ORGANIC SILT AND ORGANIC SOILS; B) SOFT CLAY; C) RUBBISH FILL AND OTHER UNSUITABLE ARTIFICIAL FILL; D) SHATTERED SHALE; E) INORGANIC SILT AND VERY FINE SANDS.
6. WHERE POSSIBLE, POUR CONCRETE ANCHOR BLOCKS AGAINST UNDISTURBED EARTH. OTHERWISE, PLACE COMPACTED BACKFILL USING GRAVEL AND WELL GRADED SAND AFTER REMOVING FORMS.
7. BACKFILL SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DRY UNIT WEIGHT DETERMINED BY ASTM TEST DESIGNATION D-1557.

MINIMUM THRUST BLOCK SIZING FOR FORCE MAINS



NOTE:
ALL FITTINGS TO BE PLACED ON WELL CONSOLIDATED GRAVEL
BLOCK HEIGHT (H) SHOULD BE APPROXIMATELY 1/2 LENGTH (L) AT
SOIL BEARING FACE

TYPICAL THRUST BLOCK PLACEMENT
ON BENDS, TEES AND PLUGS—FORCE MAINS
NOT TO SCALE

**FOR ENVIRONMENTAL
PERMITTING REVIEW
NOT FOR CONSTRUCTION**

